

## EAST Search History

| Ref # | Hits | Search Query         | DBs                            | Default Operator | Plurals | Time Stamp       |
|-------|------|----------------------|--------------------------------|------------------|---------|------------------|
| L1    | 2    | "20020191808"        | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:50 |
| L2    | 4    | "6108433"            | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:52 |
| L3    | 21   | "6104825"            | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:54 |
| L4    | 9    | "6584205"            | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:55 |
| L5    | 6    | "6577738"            | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:56 |
| L6    | 14   | "5052336"            | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:56 |
| L7    | 0    | wo-199935881-\$.did. | US-PGPUB;<br>USPAT             | OR               | OFF     | 2007/10/17 13:57 |
| L8    | 0    | wo-199935881-\$.did. | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 13:57 |
| L9    | 7    | "6859096"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 13:58 |
| L10   | 6    | "6768376"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:00 |
| L11   | 5    | "6445804"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:02 |
| L12   | 17   | "6378010"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:03 |
| L13   | 16   | "6359990"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:04 |
| L14   | 7    | "6304662"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:05 |
| L15   | 15   | "6232833"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:06 |
| L16   | 9    | "6188772"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:07 |
| L17   | 8    | "6151398"            | US-PGPUB;<br>USPAT;<br>DERWENT | OR               | OFF     | 2007/10/17 14:07 |

## EAST Search History

|     |       |   |                                |    |     |                  |
|-----|-------|---|--------------------------------|----|-----|------------------|
| L18 | 14    | "6064259"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:08 |
| L19 | 9     | "6108427"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:09 |
| L20 | 26    | "6011855"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:09 |
| L21 | 7     | "5982805"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:10 |
| L22 | 36    | "5885129"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:10 |
| L23 | 21    | "5859915"   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 14:11 |
| L24 | 6     | ("4823908"   "5159703"  <br>"5412734"   "5859915"  <br>"6052336"   "6229899").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/10/17 14:15 |
| L25 | 58    | "5758177"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/10/17 14:17 |
| L26 | 17    | "5745582"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/10/17 14:18 |
| L27 | 2     | "5700359"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/10/17 14:18 |
| L28 | 36    | "5638456"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/10/17 14:18 |
| L30 | 27344 | direction same sound  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:18 |

## EAST Search History

|     |       |   |                                |    |     |                  |
|-----|-------|---|--------------------------------|----|-----|------------------|
| L31 | 54    | (US-20020101360-\$ or<br>US-20020136414-\$ or<br>US-20010007591-\$ or<br>US-20060280315-\$ or<br>US-20020191808-\$).did. or<br>(US-3723957-\$ or US-4823908-\$<br>or US-4429194-\$ or US-3461421-\$<br>or US-1616639-\$ or US-4429193-\$<br>or US-1951669-\$ or US-3612211-\$<br>or US-6229899-\$ or US-3613069-\$<br>or US-4207571-\$ or US-4265122-\$<br>or US-4378596-\$ or US-4015089-\$<br>or US-3641421-\$ or US-3710332-\$<br>or US-3398810-\$ or US-4245136-\$<br>or US-4005278-\$ or US-4418248-\$<br>or US-4418404-\$ or US-3961291-\$<br>or US-6771785-\$ or US-3908098-\$<br>or US-2461344-\$ or<br>US-6666374-\$).did. or<br>(US-3742433-\$ or US-6556687-\$<br>or US-3836951-\$ or US-5357578-\$<br>or US-3012222-\$ or US-6108433-\$<br>or US-6104825-\$ or US-6584205-\$<br>or US-6577738-\$ or US-6768376-\$<br>or US-6445804-\$ or US-6359990-\$<br>or US-5982805-\$ or US-5859915-\$<br>or US-6678381-\$ or US-5159703-\$<br>or US-5412734-\$ or US-7040780-\$<br>or US-5758177-\$ or<br>US-5745582-\$).did. or<br>(US-6378010-\$ or US-6011855-\$<br>or US-5885129-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 16:17 |
| L32 | 15    | 30 and 31   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2007/10/17 16:17 |
| L33 | 20399 | rate same sound   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:18 |
| L34 | 6     | 31 and 33   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:23 |
| L35 | 5484  | narrow same sound   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:23 |
| L36 | 9     | 31 and 35   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:23 |
| L37 | 302   | narrow same sound same rate   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 16:24 |
| L38 | 1     | 31 and 37   | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 17:03 |
| L39 | 5     | focal and 31  | US-PGPUB;<br>USPAT             | OR | OFF | 2007/10/17 17:03 |

## EAST Search History

|     |    |               |                    |    |     |                  |
|-----|----|---------------|--------------------|----|-----|------------------|
| S1  | 1  | "20020101360" | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:56 |
| S2  | 1  | "20010007591" | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:57 |
| S3  | 15 | "1616639"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:57 |
| S4  | 17 | "1951669"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:57 |
| S5  | 15 | "2461344"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:58 |
| S6  | 11 | "3012222"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:58 |
| S7  | 13 | "3398810"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:59 |
| S8  | 13 | "3461421"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:59 |
| S9  | 16 | "3612211"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 16:59 |
| S10 | 15 | "3613069"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:00 |
| S11 | 8  | "3641421"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:00 |
| S12 | 8  | "3710332"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:00 |
| S13 | 9  | "3723957"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:01 |
| S14 | 12 | "3742433"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:01 |
| S15 | 11 | "3836951"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:01 |
| S16 | 11 | "3908098"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:02 |
| S17 | 4  | "3961291"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:02 |
| S18 | 24 | "4005278"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:03 |
| S19 | 22 | "4015089"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:03 |
| S20 | 10 | "4207571"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:03 |
| S21 | 14 | "4245136"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:04 |
| S22 | 19 | "4265122"     | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:04 |

## EAST Search History

|     |    |   |                    |    |     |                  |
|-----|----|---|--------------------|----|-----|------------------|
| S23 | 10 | "4378596"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:04 |
| S24 | 18 | "4418248"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:04 |
| S25 | 16 | "4418404"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:05 |
| S26 | 2  | "6771785"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:05 |
| S27 | 4  | "6666374"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:06 |
| S28 | 6  | "6556687"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:07 |
| S29 | 18 | "6229899"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 17:07 |
| S30 | 1  | "20060280315"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 19:03 |
| S31 | 37 | "4823908"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 19:07 |
| S32 | 18 | "6229899"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 19:08 |
| S33 | 19 | "5357578"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/10 19:08 |
| S34 | 32 | (US-20020101360-\$ or<br>US-20010007591-\$ or<br>US-20060280315-\$).did. or<br>(US-1616639-\$ or US-1951669-\$<br>or US-2461344-\$ or US-3012222-\$<br>or US-3398810-\$ or US-3461421-\$<br>or US-3612211-\$ or US-3613069-\$<br>or US-3641421-\$ or US-3710332-\$<br>or US-3723957-\$ or US-3742433-\$<br>or US-3836951-\$ or US-3908098-\$<br>or US-3961291-\$ or US-4005278-\$<br>or US-4015089-\$ or US-4207571-\$<br>or US-4245136-\$ or US-4265122-\$<br>or US-4378596-\$ or US-4418248-\$<br>or US-4418404-\$ or US-6771785-\$<br>or US-6666374-\$ or<br>US-6556687-\$).did. or<br>(US-6229899-\$ or US-4823908-\$<br>or US-5357578-\$).did. | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 12:00 |
| S35 | 1  | S34 and decibel   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 12:13 |
| S36 | 14 | "4429193"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 13:41 |
| S37 | 16 | "4429194"   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 12:13 |

## EAST Search History

|     |     |  |                    |    |     |                  |
|-----|-----|--|--------------------|----|-----|------------------|
| S38 | 678 | 381/77   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 15:38 |
| S39 | 14  | S38 and decibel  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 13:43 |
| S40 | 35  | (US-20020101360-\$ or<br>US-20010007591-\$ or<br>US-20060280315-\$ or<br>US-20020136414-\$).did. or<br>(US-1616639-\$ or US-1951669-\$<br>or US-2461344-\$ or US-3012222-\$<br>or US-3398810-\$ or US-3461421-\$<br>or US-3612211-\$ or US-3613069-\$<br>or US-3641421-\$ or US-3710332-\$<br>or US-3723957-\$ or US-3742433-\$<br>or US-3836951-\$ or US-3908098-\$<br>or US-3961291-\$ or US-4005278-\$<br>or US-4015089-\$ or US-4207571-\$<br>or US-4245136-\$ or US-4265122-\$<br>or US-4378596-\$ or US-4418248-\$<br>or US-4418404-\$ or US-6771785-\$<br>or US-6666374-\$ or<br>US-6556687-\$).did. or<br>(US-6229899-\$ or US-4823908-\$<br>or US-5357578-\$ or US-4429194-\$<br>or US-4429193-\$).did. | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 15:29 |
| S41 | 0   | S40 and (curve near speaker)   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 15:29 |
| S42 | 1   | S40 and (curve same speaker)   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 15:37 |
| S43 | 13  | "3935400"  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 15:37 |
| S44 | 51  | curve near speaker   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 16:06 |
| S45 | 818 | surface near speaker   | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 16:08 |
| S46 | 5   | S38 and S45  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 17:49 |
| S47 | 3   | S45 and asymmetry  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 16:09 |
| S48 | 68  | norris-elwood\$.in.  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 17:50 |
| S49 | 33  | croft-james\$.in.  | US-PGPUB;<br>USPAT | OR | OFF | 2007/05/11 17:50 |